

ABSTRACT

A method for fabricating a seal-integrated separator for a fuel cell is presented, with which seals can be accurately positioned and the assembling time for the fuel cell units may be greatly reduced. The method comprises the steps of: forming a through hole in the separator body; providing a first mold having grooves respectively positioned corresponding to the inner and outer seals disposed on one side of the separator body, a connecting cavity for forming a seal bridge at least partially connecting the inner and outer seals to each other at a position corresponding to the through hole, and at least one gate communicating with each of the grooves, and a second mold having grooves respectively positioned corresponding to the inner and outer seals disposed on the other side of the separator body, and a connecting cavity for forming a seal bridge at least partially connecting the inner and outer seals to each other at a position corresponding to the through hole; holding the separator body between the first mold and the second mold; and injecting melted seal material to form the seals into each of the grooves in the first mold by supplying the melted seal material into the gate and injecting a portion of the melted seal material into each of the grooves in the second mold via the through hole. Through this method, a seal-integrated separator having first to fourth seals which are integrated on both sides of the separator body is fabricated.